

# **CELLULOSE CHEMISTRY AND TECHNOLOGY**

**ADVANCES IN THE CHEMISTRY, PHYSICS AND TECHNOLOGY OF  
POLYSACCHARIDES AND LIGNIN**

55♦2021

9 - 10 ♦ - SEPTEMBER  
DECEMBER

## **C O N T E N T S**

AGATHA E. R. PRADO GÁRATE, FERNANDO ESTEBAN FELISSIA, MARIA CRISTINA AREA, TERESA SUIREZS and MARÍA EVANGELINA VALLEJOS, Physical, chemical and morphological characteristics of bamboo species <i>Guadua trinii</i> and <i>Guadua angustifolia</i> and their potential to produce high-value products .....	951-959
SHARAD RAGHUVANSI, HINA KHAN, VAISHALI SAROHA, ASHISH KADAM and DHARM DUTT, Chemical and structural changes in poplar wood upon steam treatment at constant temperature and pressure conditions for different time intervals .....	961-969
SHAKIBA BAGHERI, MEHDI RAHMANINIA and RABI BEHROOZ, Performance of urea/NaOH as a green solvent in dissolving of recycled cellulosic fiber fines residues.....	971-979
MIRELA-FERNANDA ZALTARIOV, FTIR investigation on crystallinity of hydroxypropyl methyl cellulose-based polymeric blends .....	981-988
SAURABH C. SINGH, RUPESH A. KHARE and Z.V.P. MURTHY, Separation of hemicelluloses from an industrial stream by nanofiltration and ultrafiltration processes.....	989-1000
PUNEET KAUR and RAMANDEEP KAUR, Optimization of xylan extraction process from rice straw for production of autohydrolysates rich in prebiotic xylooligosaccharides.....	1001-1017
MUHAMMAD AJAZ HUSSAIN, IRAM MALIK, IQRA SHAD, FASIHA AMJAD, MUHAMMAD AMIN, MUHAMMAD NAWAZ TAHIR, NISAR ULLAH, MUHAMMAD ASHRAF and MUHAMMAD IMRAN IRFAN, Design, characterization and enhanced bioavailability of hydroxypropylcellulose-based novel bioconjugates for inclusion of a fluoroquinolone antibiotic – gemifloxacin .....	1019-1027
NERMIN HANDE AVCIOGLU, CANSU SEVIM, ELIF NAZ ALVER, SEBNEM DONMEZ and ISIL SEYIS BILKAY, Comparison of bacterial cellulose production by	

- Komagataeibacter intermedius strain using *Lavandula angustifolia*, *Rosa canina* and *Tilia cordata* plants as low-cost media .....1029-1041
- MILICA GALIĆ, MIRJANA STAJIĆ and JASMINA ĆILERDŽIĆ, Lignocellulose waste valorization by an enzymatic cocktail of *P. eryngii* and *P. pulmonarius* .....1043-1050
- YUNUS EMRE ÖZ and MEHMET KALENDER, Optimization of bacterial cellulose production from sugar beet molasses by *Gluconacetobacter xylinus* NRRL B-759 in static culture .....1051-1060
- NABILA BELHAMICHE, FRANCIS DUCHIRON and SAID BENALLAOUA, Effect of some agro-industrial residues on mycelial growth and production of lignocellulolytic enzymes by a fungus native to Algerian forest .....1061-1069
- ARNIZA GHAZALI, NUR HAFFIZAH AZHAR, SHAHROM MAHMUD, MOHAMMAD FAUZUL AZIM MOHD KHAIRUDIN, ISHAK AHMAD, MOHD RAFATULLAH, MUHAMMAD AL AMIN ZAINI and YUSHAMDAN YUSOF, Delaminated cells for nano-enabled inkjet printability .....1071-1081
- DIMITRINA TODOROVA and VESKA LASHEVA, Effect of chitosan addition during paper-making on ageing stability of document paper .....1083-1094
- ESMAEL ROSTAMI and MARYAM SADAT GHORAYSHI NEJAD, Preparation, characterization and utilization of a novel trifluoroacetic acid supported starch/graphene oxide green nanocomposite for efficient synthesis of 2,4,5-trisubstituted imidazoles .....1095-1108
- AKBAR HANIF DAWAM ABDULLAH, BONITA FIRDIANA, ROSSY CHOERUN NISSA, RAHMAT SATOTO, MYRTHA KARINA, DINA FRANSISKA, NURHAYATI, AGUSMAN, HARI EKO IRIANTO, PANJI PRIAMBUDI, SRI MARLIAH and ISMADI, Effect of κ-carrageenan on mechanical, thermal and biodegradable properties of starch-carboxymethyl cellulose (CMC) bioplastic .....1109-1117
- RATTANAPHOL MONGKHOLRATTANASIT, CHAROON KLAICHOI and NATTADON RUNGRUANGKITKRAI, Reactive dye printing on cotton fabric using modified starch of wild taro corms as a new thickening agent .....1119-1129
- BENGÜ ERTAN, Comparison of stinging nettle adsorption performance towards anionic and cationic dyes .....1131-1142
- NUREDIN MUHAMMED, GASHAW AZENE and MELKIE GETNET, Utilization of water hyacinth for dye effluent purification .....1143-1152
- HANANE ABURIDEH, ZAHIA TIGRINE, LAMINE AOUDJIT, ZOUBIR BELGROUN, KAOUTHER REDJIMI and DJILLALI TASSALIT, Development of acid modified cellulose acetate membranes for salt water treatment .....1153-1161
- YAN HAO, JING QU, ZUNYI LIU, SONGBO LI, HUI YANG, HUAZHENG SAI, HUIMIN YANG, JING PENG, LONG ZHAO and MAOLIN ZHAI, Efficient adsorption of Ce (III) onto porous cellulose/graphene oxide composite microspheres prepared in ionic liquid.....1163-1175

[Author index](#)  
[Subject index](#)